

CLAIMS

1. A theft-prevention ink pack device, comprising:
an ink pack, consisting of a bag containing ink, that
5 is placed inside a case having a front board on which an
ink spout is formed;
a spring that urges the ink pack and a knife edge to
close in on each other and applies pressure to the ink pack;
the knife edge that tears the ink pack; and
10 an engaging structure that is engaged to support a
state in which the ink pack and the knife edge are spaced
apart from each other, and is disengaged when an outer force
is applied; wherein:
the ink pack and the knife edge close in on each other
15 by means of a spring force of the spring when the engaging
structure is disengaged so that the ink pack is torn by the
knife edge, and the ink pack is pressured, resulting in the
ink shooting out from the ink spout.
2. The theft-prevention ink pack device as claimed
20 in claim 1, wherein:
the knife edge is a portion of the front board of the
case and is formed by cutting and bending said front board
at the rim of the ink spout.
3. The theft-prevention ink pack device as claimed
25 in claim 1, further comprising:
a pressboard positioned at the back side of the ink
pack; wherein:
30 the spring, arranged between the pressboard and a
back board of the case, urges the pressboard toward the
front board of the case; and
the whole ink pack is pressured by the pressboard.
4. The theft-prevention ink pack device as claimed
35 in claim 1, wherein:
the spring is a conical compression coil spring.

5. The theft-prevention ink pack device as claimed in claim 1, further comprising:

5 a pressboard positioned at the back side of the ink pack; wherein:

a plurality of conical compression coil springs are implemented as the spring, said conical compression coil springs being arranged between the pressboard and a back board of the case and urging the pressboard toward the front board of the case; and

10 the whole ink pack is pressured by the pressboard.

6. A treasure safe comprising:

15 a box main body in which the theft-prevention ink pack device as claimed in claim 1 is implemented;

a door that opens by being rotated;

a locking device that locks the door and is unlocked upon opening the door;

20 a connecting structure that connects the door to the theft-prevention ink pack device; and

a disconnecting structure for disconnecting the connection made by the connecting structure when the locking device is unlocked.

25 7. A theft-prevention ink pack device, comprising:

a case including a case main body that is made up of side board portions and a front board portion having an ink spout and a knife edge that is directed inward, and a back lid member that covers the back side of said case main body;

30 a support member, having a plurality of support lugs, that is slidably arranged on the inner side of the front board portion;

a tray member that is supported by the support lugs in a state of being spaced apart from the knife edge;

35 an ink pack, consisting of a bag containing ink, that is arranged on the tray member;

a pressboard positioned on the back side of the ink

pack; and

a spring member arranged between the pressboard and the back lid member in a compressed state; wherein:

the support provided to the tray member by the support
5 lugs is released when the support member is moved, the tray member, the ink pack, and the pressboard are moved to the front board portion by means of the spring force of the spring member, the ink pack is torn by the knife edge, and the ink pack is pressured by the pressboard so that the ink
10 shoots out from the ink spout.

8. A treasure safe comprising:

a box main body in which the theft-prevention ink pack device as claimed in claim 7 is implemented;
15 a door that opens by being rotated;
a locking device that locks the door and is unlocked upon opening the door;
a connecting structure that connects the door to the theft-prevention ink pack device; and
20 a disconnecting structure for disconnecting the connection made by the connecting structure when the locking device is unlocked.